



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,791 10/12/2001		10/12/2001	Takanobu Kai	NECM 19.067	9579
26304	7590	03/24/2003			
KATTEN I	MUCHIN	ZAVIS ROSENI	MAN	EXAMI	NER
• , •	ISON AVENUE RK, NY 10022-2585			NGO, HUNG V	
				ART UNIT	PAPER NUMBER
				2831	0.1
				DATE MAILED: 03/24/2003	G

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. 09/975,791

Applicant(s)

Kai

Examiner

Hung V. Ngo

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The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
mailing date of this communication.						
- If NO p - Failure - Any re	eriod for reply specified above is less than thirty (30) days, a reply within the riod for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) MONTHS from the meiling date of this communication. Be application to become ABANDONED (35 U.S.C. § 133).				
Status						
1) 💢	Responsive to communication(s) filed on Feb 26, 2	003				
2a) 💢	This action is FINAL . 2b) \square This act	ion is non-final.				
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposit	ion of Claims					
4) 💢	Claim(s) <u>1-18</u>	is/are pending in the application.				
4	a) Of the above, claim(s)	is/are withdrawn from consideration.				
5) 🗆	Claim(s)	is/are allowed.				
6) 💢	Claim(s) <u>1-18</u>	is/are rejected.				
7) 🗆	Claim(s)	is/are objected to.				
8) 🗆	Claims	are subject to restriction and/or election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10)□	The drawing(s) filed on is/are	a) \square accepted or b) \square objected to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.				
	If approved, corrected drawings are required in reply	to this Office action.				
12)	The oath or declaration is objected to by the Exami	ner.				
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) □ All b) □ Some* c) □ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
*See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) U The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
_	ent(s) tice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).				
~	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)				
3)	ormation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 6, 10-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al.

Chen et al discloses a printed circuit board (120, 140) having at least one protuberance (ground connection pin 130), a shield member (110) made of metal (col 3, line 16), an aperture (112).

Claims 1, 3, 4, 6-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Bianca et al.

Bianca et al discloses a printed circuit board (26) having at least one protuberance (10), a shield member (38), an aperture (24).

8, 1982) 215 USPQ 835.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2, 4, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al The teaching of Chen et al as discussed above does not disclose the protuberance having a spherical side surface, cross sections gradually reducing in area toward the vertex, or a circular It would have been obvious to one of ordinary skill in the art at the time the invention cone. was made to modify the protuberance of Chen et al by employing the spherical side surface, the cross sections gradually reducing in area toward the vertex, or the circular cone, since more than a mere change of form is necessary for patentability. In re Span-Deck Inc. v. Fab-Con, Inc. (CA

Response to Arguments

Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung V. Ngo whose telephone number is (703) 308-7614. The examiner can normally be reached on Tuesday to Friday from 8:30 am to 06:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard, can be reached on (703) 308-3682.

The fax phone number for this Group is (703) 305-3431 or (703) 305-3432.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Hung V. Ngo

March 18, 2003

Huy VNGR

HUNG V. NGO PATENT EXAMINER